

MAMEDOV, S.M.

Country : USSR
 Category: Plant Physiology. General Problems. I
 Abs Jour: RZhBiol., No 14, 1958, No 62939
 Author : Alekperov, S.A.; Mailov, A.I.; Mamedov, S.M.
 Inst : Azerbaidzhan Sci Res Institute of Forest Economy
 Title : The Effect of Soil Salt Impregnation on the Carbo-
 hydrate Metabolism of some Woody and Brushwood
 Plants
 Orig Pub: Byul. nauchno - tekhn. inform. Azerb n.-i. in-ta
 lesn Kh - va i agrolesomelior., 1957, No 1-2,
 47-51.
 Abstract: The carbohydrate content in the leaves of glyco-
 phytes (honey locust, white mulberry tree, ~~am~~morpha)
 in areas of the Mil'sko-Shirvan field protecting
 Card : 1/2

MAMEDOV, S.M.

USSR/Physiology of Plants. General Problems.

I-1

Abs Jour: Ref. Zhur-Biol., No 1, 1958, 1112.

Author : Alekperov, S.A. and Mamedov, S.M.

Inst : Azerbaydzhan Scientific Research Institute of Forestry and Forest Improvement.

Title : Improving the Resistance to Salt of Some Tree Varieties by Directed Cultivation.

Orig Pub: Trudy Azerb. n.-i. in-ta les. kh-vi i agrolesomelior, 1956, No 1, 32-38.

Abstract: In the Mil'sko-Shirvan state forest protective belt, on the Barda "Leskhoz" of the Agdzhabedinsk Forest Area, it has been shown that a method of directed increase of the salt-resistance of trees through treatment of the seeds before sowing is possible. The germinating seeds of long-legged oak, the Japanese sophora, and ailanthus were soaked in a 4% NaCl solution, a 5% Na_2SO_4 solution, and a 1 N. van't Hoff solution for

Card : 1/2

-7-

Mamedov, S.M.

KARRYEV, O.M.; MAMEDOV, S.M.

Epidemiology of Pappataci fever in Turkmenistan. Zhur.mikrobiol.epid.
i immun., supplement for 1956:33 '57 (MIRA 11:3)

1. Iz kafedry organizatsii zdravookhraneniya i istorii meditsiny
Turkmenskogo meditsinskogo instituta.
(TURKMENISTAN--PAPPATACI FEVER)

MAMEDOV, S. M.

MAMEDOV, S. M. -- "The Epidemiology and Prophylaxis of Mosquito Disease under the Conditions of a Large City." Turkean Medical Inst imeni I. V. Stalin. Ashkhabad, 1955. (Dissertation for the Degree of Candidate in Medical Sciences)

SO: Knizhnaya Lotopis', No 1, 1956

BAYRIYEV, Ch.B.; MAMEDOV, S.M.

Thermophilic bacterium isolated from ozocerite. Izv.AN SSSR.Ser.
biol. no.5:782-786 S-O '62. (MIRA 15:10)

1. State Medical Institute, Ashkhabad, Turkmenian S.S.R.
(OZOCERITE) (BACTERIA, THERMOPHILIC) (ANTIBIOTICS)

MAMEDOV, S.I.

Vereshchagin, N.K., Kalaushin, A.Ye. and Mamedov, S.I. "On the use of petroleum gases in combating harmful rodents", Doklady (Akad. nauk Azerbaydzh. SSR), 1948, No. 12, p. 529-34, (Resume in Azerbaijani).

SC: U-3261, 10 April 53, (Letopis 'zhurnal 'nykh Statey No. 12, 1949)

ALIYEV, N.D.; MAMEDOV, Shamkhal; MAMEDOVA, Ye.I.; OSIPOV, O.B.

Fungicidal and fungistatic effect of ether preparations. Izv.
AN Azerb. SSR. Ser. biol. nauk no.2:112-114 '65.

(MIRA 18:7)

ALIZADE, M.A.; MAMEDOV, Shamkhal; KARAKHANOVA, S.V.

Effect of efiran 99 on carbohydrate and protein metabolism in
weeds. Izv. AN Azerb. SSR. Ser. biol. nauk no.6:19-22 '64.
(MIRA 18:6)

ACC NR: AP6028888

Com- pound no.	Formula	Calculated %		
		C	H	N
XXIV **	$C_{19}H_{30}NO_3S_2$	60.48	10.34	3.71
XXV	$C_{15}H_{33}NO_3$	65.48	12.00	5.09
XXVI	$C_{28}H_{60}N_2O_4$	68.85	12.80	7.73
XXVII	$C_{17}H_{37}NO_4$	63.95	11.60	4.39

[WA-50; CBE No. 12]

SUB CODE: / 0706 / SUBM DATE: 21 Jan 65 / ORIG REF: 012 /

Card 8/8

ACC NR: AP6028888

Compound no.	Formula	Calculated %		
		C	H	N
XIII	$C_{16}H_{32}N_2O_2$	67.60	11.27	9.85
XIV	$C_{20}H_{40}N_2O_2$	70.18	12.28	8.18
XV	$C_{15}H_{28}ClNO$	62.78	10.86	5.61
XVI	$C_{14}H_{31}NO_2$	68.57	12.66	5.71
XVII	$C_{15}H_{33}NO_2$	—	—	5.40
XVIII	$C_{16}H_{35}NO_2$	70.33	12.83	5.12
XIX	$C_{17}H_{37}NO_2$	—	—	4.88
XX	$C_{18}H_{39}NO_2$	71.76	12.95	4.65
XXI	$C_{19}H_{41}N_2O_2$	73.08	12.82	8.97
XXII	$C_{15}H_{30}NO$	74.07	13.58	5.90
XXIII	$C_{15}H_{31}NO_2$	65.93	11.35	5.12

Card 7/8

ACC NR: AP6028888

Compound no.	Formula	Calculated %		
		C	H	N
I	$C_{13}H_{19}NO_2$	67.53	12.55	6.06
II	$C_{10}H_{21}NO_2$	64.17	11.23	7.42
III	$C_{18}H_{33}NO_2$	65.45	12.00	5.09
IV	$C_{17}H_{37}NO_2$	—	—	4.62
V	$C_{17}H_{37}NO_2$	67.33	12.21	4.62
VI	$C_{18}H_{39}NO_2$	—	—	4.41
VII	$C_{19}H_{41}NO_2$	68.88	12.39	4.23
VIII	$C_{19}H_{41}NO_2$	—	—	4.23
IX	$C_{12}H_{25}NO_2$	62.34	10.82	6.06
X	$C_{14}H_{29}NO_2$	—	—	5.67
XI	$C_{15}H_{31}NO_2$	65.93	11.36	5.12
XII	$C_{16}H_{33}NO_2$	—	—	4.89

Card 6/8

ACC NR: AP6028888

Compound no.	Yield (in %)	bp (p in mm)	d_4^{20}	n_D^{20}	MR _D		Found %		
					Found	Calc'd	C	H	N
XXIII	54	144—146 (1)	0.9088	1.4366	78.63	78.85	66.24, 66.22	11.18, 11.16	5.28, 5.35
XXIV **	54	208—210 (1)	0.9365	1.4912	113.95	114.35	60.76, 60.46	10.59, 10.70	3.66, 3.49
XXV	43	161—163 (2)	0.9200	1.4490	80.17	80.55	65.69, 65.49	11.61, 12.09	5.08, 5.07
XXVI	25	239—240 (2)	0.8997	1.4510	146.77	146.05	69.23, 68.59	12.33, 12.79	7.93, 8.14
XXVII	57	160—162 (1)	0.9202	1.4398	91.34	91.57	64.24, 63.98	11.75, 12.02	4.66, 4.28

** Found %: S 16.59, 16.65. Calculated %: S 16.97.

Card 5/8

ACC NR: AP6028888

3

Com- pound no.	Yield (in %)	bp (p in mm)	d_4^{20}	n_D^{20}	MR _D		Found %		
					Found	Calc'd	C	H	N
XIII	60	162—163 (0.5)	0.8927	1.4438	80.30	80.62	68.00, 67.90	11.67, 11.57	10.10, 10.10
XIV	54	172—174 (1)	0.9056	1.4603	103.51	104.01	70.62, 70.55	12.32, 12.72	8.48, 8.17
XV*	87	120—122 (1)	0.9172	1.4450	72.41	72.62	62.31, 62.48	11.28, 11.16	5.32, 5.73
XVI	74	118—120 (1)	0.8595	1.4336	74.17	74.41	68.96, 68.76	13.05, 12.99	5.83, 5.78
XVII	61	126—127 (1)	0.8571	1.4341	78.69	79.06	—	—	5.79, 5.81
XVIII	75	135—136 (1)	0.8532	1.4350	83.33	83.71	70.60, 70.04	12.90, 12.99	5.35, 5.49
XIX	70	146—147 (1)	0.8517	1.4366	88.22	88.36	—	—	4.77, 4.89
XX	77	154—156 (1)	0.8502	1.4380	92.93	93.00	72.19, 72.09	13.42, 13.44	4.72, 4.75
XXI	50	170—172 (1)	0.8635	1.4623	97.15	97.60	73.35, 73.17	13.16, 12.88	8.88, 9.25
XXII	48	118—119 (2)	0.8250	1.4354	76.90	77.30	74.06, 73.76	13.67, 13.83	5.67, 5.59

* Found %: C 14.53, H 14.29. Calculated %: C 14.29.

Card 4/8

ACC NR: AP6028888

Com- pound no.	Yield (in %)	bp (p in mm)	d ₄ ²⁰	n _D ²⁰	MR _D		Found %		
					Found	Calc'd	C	H	N
I	90	128—130° (1)	0.8609	1.4412	69.28	69.49	67.46, 67.31	12.82, 12.95	6.46, 5.88
II	90	104—105 (5)	0.9155	1.4500	54.88	55.07	64.23, 64.27	11.57, 11.38	7.66, 7.64
III	54	124—126 (1)	0.8934	1.4340	80.17	80.51	65.71, 65.93	12.40, 12.17	4.90, 5.44
IV	55	141—143 (1)	0.8838	1.4368	89.79	89.81	—	—	4.67, 4.52
V	40	135—137 (1)	0.8820	1.4360	89.72	89.81	66.88, 67.36	12.57, 12.52	4.55, 4.59
VI	44	150—152 (1)	0.8800	1.4362	94.23	94.45	—	—	4.47, 4.88
VII	48	166—168 (1)	0.8814	1.4390	98.77	99.10	69.20, 68.89	12.32, 12.81	4.55, 4.55
VIII	40	161—163 (1)	0.8790	1.4376	98.77	99.10	—	—	4.70, 4.65
IX	52	100—102 (2)	0.9200	1.4396	66.11	66.09	62.21, 62.67	11.19, 11.27	6.35, 6.53
X	50	123—125 (2)	0.9076	1.4400	75.22	75.38	—	—	5.41, 5.81
XI	52	128—130 (0.5)	0.9050	1.4405	78.72	79.04	65.96, 66.31	11.66, 11.82	5.47, 5.28
XII	54	149—151 (2)	0.8993	1.4408	84.67	84.25	—	—	5.27, 4.99

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ACC NR: AP6028888

I reacts with acrylonitrile to form XIII. Compound XIV was obtained by heating (at 75—80°C) a mixture of I with hexamethyleneamine, benzene, and paraformaldehyde. I reacts in benzene solution with thionyl chloride to form XV. Compounds XVI—XX were obtained by the reaction of XV with Na alkoxides at 60—70°C. At 90—100°C XV reacts with hexamethyleneamine to form XXI. Compound XXII was obtained by the reaction of XV with ethylmagnesium bromide. Reaction of XV with potassium acetate yielded XXIII; with potassium isoamylxanthogenate XV reacts to form XXIV; and with ethylene glycol XV reacts to form XXV. XXVI is formed in the latter reaction as a by-product. XXVI reacts with α -chloro-methyl ether to form XXVII. Composition and properties of the new ethers are given in the table:

Card 2/8

ACC NR: AP6028888

SOURCE CODE: UR/0366/66/002/008/1377/1382

AUTHOR: Mamedov, Shamkhal; Shamilov, Kh. Kh.; Khydrov, D. N.

ORG: Institute of Petrochemical Processes, Academy of Sciences, AzerbSSR, Baku
(Institut neftekhimicheskikh protsessov Akademii nauk AzerbSSR)

TITLE: Glycol ethers and their derivatives. CVIII. Synthesis of alkoxymethyl ethers of 1-hexyloxy-3-(diethylamino)-2-propanol

SOURCE: Zhurnal organicheskoy khimii, v. 2, no. 8, 1966, 1377-1382

TOPIC TAGS: pesticide, hexyloxydiethylaminopropanol alkoxymethyl ether, ether, chemical synthesis

ABSTRACT: In a search for new pesticides, a series of previously unreported methoxy-, propoxy-, isopropoxy-, isobutoxy-, and isoamyloxy-methyl ethers of 1-hexyloxy-3-(diethylamino)-2-propanol (I) and methoxy-, propoxy-, butoxy-, and amyloxymethyl ethers of 1-vinylmethoxy-3-(diethylamino)-2-propanol (II) were synthesized by a variant of the Williamson ether synthesis, in which α -chloromethyl alkyl ethers are treated with I and II in the presence of NaOH. Composition and properties of the new ethers (III-XII) are given in the table. At 40-50°C in the presence of Na methoxide,

Card 1/8

UDC: 547.27

MAMEDOV, Shamkhal; USMIREV, T.I.; GADZHYZADE, F.S.

Glycol ethers and their derivatives. Part 103: Synthesis of alkoxyethyl ethers of bis(1-hydroxycyclohexyl)acetylene and its derivatives. Zhur. org. khim. 1 no. 12:2131-2135 D '65 (MIRA 1966)

1. Institut neftekhimicheskikh protsessov AN Azerb. Submitted June 22, 1964.

MAMEDOV, Shamkhal; LERNER, G.Ya.; GADZHIZADE, F.S.

Glycol ethers and their derivatives. Part 100: Synthesis of β -chloroethoxymethyl ethers of tetramethylbutynediol. Zhur. org. khim. 1 no.9:1571-1574 S '65. (MIRA 18:12)

1. Institut neftekhimicheskikh protsessov AN Azerbaydzhanskiy SSR. Submitted February 24, 1964.

MAMEDOV, Shamkhal; ARABOV, A.K.; KHYDYROV, D.N.

Glycol ethers and their derivatives. Part 99: Synthesis of alkoxy-methyl ethers of 1,3-bis (diethylamino)-2-propanol. Zhur. org. khim. 1 no.6:1034-1039 Je '65. (MIRA 18:7)

1. Institut neftekhimicheskikh protsessov AN AzSSR.

MAMEDOV, Shamkhal; AGAYEV, A.S.

Glycol ethers and their derivatives. Part 97: Synthesis of γ -chloro-ethers of the aromatic series. Zhur. org. khim. 1 no.1:69-71 Ja '65.
(MIRA 18:5)

1. Institut neftekhimicheskikh protsessov AN AzerSSR.

MAMEDOV Shamkhal; DZHALILOV, T.; AVANESYAN, M.A.

Glycol ethers and their derivatives. Part 96: Synthesis of mixed
di-alkoxydimethyl ethers of thiodiethylene glycol. Zhur. org. khim.
1 no.1:64-69 Ja '65. (MIRA 18:5)

1. Institut neftekhimicheskikh protsessov AN AzerSSR.

MAMEDOV Shamkhal; AMINIMULIYD, R.A.; AGAYEV, A.S.

Glycol ethers and their derivatives. Part 95: Synthesis of
monalkoxymonorethyl ethers of diethylene glycol. Zhur. org.
khim. 1 no.1:59-63 Ja '65. (MIRA 18:5)

1. Institut neftekhimicheskikh problemov AN AzerSSR.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001032000011-6

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MAMEDOV, Shamkhal; KAFAROVA, S.M.; RZAYEV, A.S.; AVANESYAN, M.A.

Glycol ethers and their derivatives. Azerb. khim. zhur. no.1:45-49
'65. (MIRA 18:7)

1. Institut neftekhimicheskikh protsessov AN AzerSSR.

MAMEDOV, Shamkhal; GADZHIYEV, F.R.; KHYDYROV, D.N.

Study of glycol ethers and their derivatives. Part 82: Synthesis
of Beta-(N-hexamethylenimino) ethanol alkoxymethyl ethers. Zhur.
ob.khim. 34 no.12:3912-3918 D '64 (MIRA 18:1)

1. Institut neftekhimicheskikh protsessov AN AzerSSR.

MAMEDOV, Shamkhal; DZHALILOV, T.N.; AVANESYAN, M.A.

Study of glycol ethers and their derivatives. Part 87: Alkoxymethyl
alkyl xanthates. Zhur. b. khim. 34 no.12:3907-3911 D '64
(MIRA 18:1)

1. Institut neftekhimicheskikh protsessov AN AzerSSR.

MAMEDOV, Shamkhal; DZHAGUPOVA, Ye.G.; AVANESYAN, M.A.

Glycol ethers and their derivatives. Part 86: Synthesis of
alkoxymethyl ethers of p-chlorobenzyl alcohol. Zhur. ob.
khim. 34 no.11:3583-3588 N '64 (MIRA 18:1)

MAMEDOV, Shamkhal; KHYDYROV, D.N.; SEID-RZAYEVA, Z.

Glycol ethers and their derivatives. Part 55: Alkoxymethyl ethers of α -phenylethyl alcohol. Zhur.ob.khim. 33 no.4:1171-1177 Ap '63.
(MIRA 16:5)

1. Institut neftekhimicheskikh protsessov AN AzSSR.
(Benzyl alcohol) (Ethers)

MAMEDOV, Shamkhal; POKONOVA, Yu.; RZAYEV, A.

Glycol ethers and their derivatives. Part 54: Alkoxyethyl ethers of
2,3-butanediol. Zhur.ob.khim. 33 no.4:1166-1171 Ap '63.
(MIRA 16:5)

1. Institut neftekhimicheskikh protsessov AN AzerbSSR.
(Butanediol) (Ethers)

MAMEDOV, Sh.R.

Asymptotic properties of the best exponential approximation
of analytic functions of several variables. Uch. zap. AGU.
Ser. fiz.-mat. nauk no.4:35-45 '63. (MIRA 17:10)

MAMEDOV, Shamkhal; GADZHIYEV, F.R.; RZAYEV, A.S.

Glycol ethers and their derivatives. Azerb. khim. zhur. no.3:
75-82 '64. (MIRA 18:5)

MAMEDOV, S.G.; LUKASHEVICH, A.F., agronom (Kishinev)

The weevil *Tanymedus dilaticollis* Gyll. Zashch. rast. ot vred. 1 bol.
7 no.8:56 Ag '62. (MIRA 15:12)

1. Nakhichevanskaya zonal'naya opytnaya stantsiya (for Mamedov).
(Corn (Maize)—Diseases and pests) (Weevils)

S/214/62/000/008/001/003
D218/D308

A study of the spectra ...

10^{13} cm^{-3} . The turbulent velocity inside such flares was also found to vary: for example, for the flare of May 28, the turbulent velocity determined from the H and K lines was 19 km/sec, while the velocity determined from the H β and H γ lines was 43 km/sec. The effective geometrical depth of the low intensity flares was $10^6 - 10^7 \text{ cm}$. The optical thickness in the H α line was normally less than unity. The temperature corresponding to the radiation density in the Lyman continuum was 6500° or 11500° (indicating the absence or the possible presence of bremsstrahlung). Acknowledgement is made to Professor V.A. Krat who directed this work. There are 4 figures and 3 tables.

ASSOCIATION: Shemakhinskaya astrofizicheskaya observatoriya AN Azerbaydzhanskoy SSR (Shemakhinskaya Observatory of the Azerbaydzhan AS)

Card 2/2

S/214/t2/000/008/001/003
D218/D108

AUTHOR: Mamadov, S.G.

TITLE: A study of the spectra of three low-intensity chromospheric flares

PERIODICAL: Solnechnyye dannyye, no. 8, 1962, 54-63

TEXT: The flares of May 28 (13^h17^m UT), June 20 (05^h26^m and 05^h30^m) and May 3 (04^h41^m and 04^h50^m) 1961 were investigated (the figures in brackets indicate the times of exposures). The spectra were recorded in the first order of the grating spectrograph of the horizontal solar telescope of the Pulkovo Observatory. Profiles of emission lines were obtained in units of the neighboring continuous spectrum of the center of the solar disc. It was found that these low-intensity flares are physically non-homogeneous. The electron temperature within the flares was found to vary from layer to layer between 9000° (Ca filaments) and 15000° (H filaments). There is evidence that there are even hotter layers (He filaments at 30000°). The electron density was found to vary between 10¹² and

Card 1/2

S/233/62/000/003/008/010
1024/1242

AUTHOR: Mamedov, S.G.

TITLE: CaII H and K lines of a weak chromospheric flare of
September 8, 1960

PERIODICAL: Akademiya nauk Azerbaydzhanskoy SSR. Izvestiya. Seriya
fiziko-matematicheskikh i tekhnicheskikh nauk, no.3,
1962, 111-117

TEXT: The above lines, observed by V.A. Krat, were studied with the aid of the diffraction spectrograph of the Pulkovo horizontal solar telescope. The flare was found to have a no.1 intensity. In addition to the H and K lines, the H_{β} , H_{δ} , H_{ϵ} , H_{γ} and H_{α} lines were obtained on the spectrograms. The observed contour was attributed to the Doppler effect and the presence of a "base layer" (an undisturbed contour, on which the emission contour of the flare is superimposed) was taken into account. The flare consists of two layers of different temperatures and optical thicknesses. There is 1 figure.

Card 1/1

The development of a weak chromospheric outburst of September 8, 1960

S/214/62/000/001/001/002
1023/1223

is good. The population densities of the N_2 , N_4 , N_6 and N_7 levels for the different times are computed. The population densities of the higher levels are greater than for a Boltzmann distribution, i. e. that the conditions are far from a thermodynamic equilibrium. The over-population of the upper levels will be discussed in a future article. There are 4 figures and 1 table.



Card 2/2

S/214/62/000/001/001/002
I023/I223

AUTHOR: Mamedov, S. G.

TITLE: The development of a weak chromospheric outburst of September 8, 1960

PERIODICAL: Solnechnyye dannyye, no. 1, 1962, 57-64

TEXT: Spectrograms of the September 8, 1960 outburst, obtained by V. A. Krat on the spectrograph of the horizontal solar telescope at the Pulkovo observatory, are analyzed. Good spectrograms were measured at the following times: 7h 09m, 7h 35m, 7h 40m and 7h 42m (all times Universal Time). 7h 09m is very near the maximum of the outburst's brightness. The outburst was observed in a group of 5 sun spots near the center of the sun's disk. The purpose of the present work is to calculate population densities of hydrogen levels, follow changes in them with the development of the outburst, and to construct theoretical contours. Because of a large number of Fraunhofer lines in this range of the spectrum, the analysis of weak lines gives very unprecise results. Therefore only the lines H_β and H_δ were used in all the spectrograms, and H_ϵ in the first two. The present outburst occurred in the upper layers of the chromosphere, and therefore no deformations of the "unperturbed" contour were observed. Atmospheric variations are small-of the order of magnitude of $2''$. The broadening of the emission lines is due to Doppler effect. The spectrogram of 7h 09m is analyzed in detail (a part of the calculations is given). The agreement between theoretical contours and observed data



Card 1/2

S/214/62/000/005/001/003
I046/I264

On the physical nature

ASSOCIATION: Shemakhinskaya astrofizicheskaya observatoriya AN
Azerbaydzhanskoy SSR (The Shemakhinsk Astrophysical
Observatory AS Azer SSR) ✓

Card 2/2

S/214/62/000/005/001/003
IO46/I264

AUTHOR: Mamedov, S.G.

TITLE: On the physical nature of the weak chromospheric
flare of September 8, 1960. I

SOURCE: Solnechnyye dannyye, no. 5, 54-63

TEXT: Population of the 4th, 5th, 6th and 7th hydrogen levels is calculated from the steady-state equation for hydrogen levels allowing for electron transitions between the upper levels under the effect of electron impact (elastic and inelastic scattering). The calculations are based on the Born cross sections published recently in Ref. 3 (G.C.McCoyd, S.N.Mifford, J.J.Wahl. Phys. Rev., 119, 149, 1960). There are 6 tables. ✓

Card 1/2

ANNANEPESOV, Kh.; MIRZOYANTS, N.S., epidemiolog; MAMEDOV, S.D., epidemiolog.

Control of intestinal infarctions in Geok-Tepe District.
Zdrav. Turk. 7 no.3:34-37 Mr'63. (MIRA 16:6)

1. Glavnyy vrach Geok-Tepinskogo rayona (for Annanepesov).
2. Turkmenskaya respublikanskaya sanitarno-epidemiologicheskaya stantsiya (for Mirzoyants, Mamedov).

(GEOK-TEPE DISTRICT—INTESTINES—INFARCTION)

I 11149-66 EWT(m)/EWP(j)/T/EWP(t)/EWP(b) JD/WM/WB/RM
 ACC NR: AP6000335 SOURCE CODE: UR/0286/65/000/021/0035/0035

AUTHORS: Kuliyeu, A. M.; Bragin, V. A.; Mamedov, I. A.; Konovalov, V. A.;
 Sadykhov, K. I.; Sharifov, F. R.; Zeynalov, S. D.; Mamedov, S. A.; Diadimov, G.
 L.; Negreyev, V. F.

ORG: none

TITLE: A method for protecting metals from corrosion? Class 22, No. 176022

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 21, 1965, 35

TOPIC TAGS: corrosion, corrosion protection, organic acid, carbon dioxide, hydro-
 carbon, asphalt, corrosion inhibitor

ABSTRACT: This Author Certificate presents a method for protecting metals from
 corrosion in a medium of low organic acids and carbon dioxide with the help of a
corrosion inhibitor. To increase the degree of protection, hydrocarbon-soluble
 products of neutralising acid asphalts are used as the inhibitor.

SUB CODE: 11/ SUBM DATE: 24Nov64

Card 1/1

UDC: 620.197.3

MAMEDOV, S.P.

Cotton productivity and its dependence on weather conditions.
Izv. AN Azerb. SSR. Ser. geol.-geog. nauk no.5:125-129 '64.
(MIRA 18:6)

ISMAIL-ZADE, T.A.; AGAMIRZOYEV, R.A.; GERAYBEKOV, Ch.A.; GRABOVSKAYA,
G.P.; GASANOVA, K.D.; KARAYEV, E.M.; MAMEDOV, S.A.

Magnetic properties of a producing formation in Zizil'piri. Dokl.
AN AzerbSSR 20 no.10:45-49 '64. (BCHA 18:2)

1. Institut geologii AN AzerbSSR.

45023

S/103/63/024/001/011/012
D201/D308

10 8600
AUTHOR: Mamedov, R. Yu. (Moscow)

TITLE: Maintaining the stability of a class of nonlinear systems in the presence of considerable disturbances

PERIODICAL: Avtomatika i telemekhanika, v. 24, no. 1, 1963, 109-111

TEXT: The author considers the stability of an automatic control system with a motor output stage, the velocity characteristic of which has a non-linearity of the saturation type. Such a system has an unstable cycle, which limits the domain of the initial conditions. Taking the projections of phase trajectories on the coordinate planes, the author shows that the stability region of initial conditions can be easily expanded by applying heavy non-linear feedback (e. g. using a function generating potentiometer), and the system remains linear under small disturbances. There are 2 figures. ✓

SUBMITTED: April 2, 1962

Card 1/1

MAMEDOV, R.S.

Effect of a growth promoting substance of petroleum origin on
rice yield. Dokl. AN Azerb. SSR 19 no.11:59-63 '63. (MIRA 17:3)

MAMEDOV, R.S.

Mineral organic fertilizers for purposes of increasing the
yield of rice. Dokl. AN Azerb. SSR 19 no.5:35-38 '63.
(MIRA 17:2)

L 21560-66

ACC NR: AP6009794

The authors found that in the presence of hydroperoxides some amines react with mercaptans to form sulfenamides. They suggest that this may account for the synergistic effects observed when mixtures of amines and mercaptans are used as antioxidants. Orig. art. has: 2 figures and 1 table. /

[VS]

SUB CODE: 11/07/ SUBM DATE: 12Nov63/ ORIG REF: 006/ OTH REF: 001
 ATD PRESS: 4219

Card 5/5

ULR

L 21560-66
ACC NR: AP6009794

Table 1. (Cont.)

Number	R	mp, °C	Induction period in min. for con- centration M/kg			
			0.03	0.05	0.07	1.0
XIII	$-\text{CH}_2-\text{S}-\text{C}(\text{CH}_3)_2-\text{S}-\text{CH}_2-\text{C}$ 	223-224	25	55	180	250
XIV	$-\text{CH}_2-\text{S}-\text{C}(\text{C}_2\text{H}_5)_2-\text{S}-\text{CH}_2-\text{C}$ 	249-250	10	10	20	20
XV	$-\text{H}_2\text{C}-\text{S}-\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_3$	145-146 [2]	15	18	20	180
XVI	$-\text{H}_2\text{C}-\text{S}-\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_3$	132-133	20	340	450	400
XVII	$-\text{H}_2\text{C}-\text{S}-\text{H}_2\text{C}-\text{C}_6\text{H}_5$	141-142 [2]	50	75	100	110
XVIII	$-\text{H}_2\text{C}-\text{S}-\text{H}_2\text{C}-\text{C}_6\text{H}_5$	165-166	30	60	105	120
XIX	$-\text{H}_2\text{C}-\text{SO}_2-\text{H}_2\text{C}-\text{C}_6\text{H}_5$	206-208	Inactive			

*In (XII), both hydrogen atoms at the NH groups
are replaced by CH_3 groups.

Card 4/5

L 21560-66
ACC NR: AP6009794 Table 1. (Cont.)

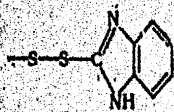
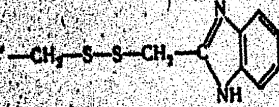
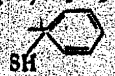
Number	R	mp, °C	Induction period in min. for con- centration M/kg			
			0.02	0.05	0.07	1.0
VII		97-98 [2]	20	40	60	90
VIII		218-219 [3]	20	70	80	100
IX		245-247 [3]	30	140	220	300
X		182-183	20	75	90	100
XI		219-220 [3]	10	30	40	40
XII*		207-208	20	30	80	90

Card 3/5

L 21560-66

ACC NR: AP6009794

Table 1. Results of measuring induction periods of benzimidazole derivatives

Number	R	mp, °C	Induction period in min. for concentration M/kg.			
			0.02	0.05	0.07	1.0
I	-SH	305-308 [1]	55	120	210	265
Ia		228-230 [1]	15	190	270	295
II	-CH ₂ SH	156-158 [2]	45	55	70	80
IIa		180-181 [1]	45	55	50	80
III	-CH(SH)CH ₂ CH ₃	222	10	50	100	150
IV	-CH(SH)CH ₂ CH ₂ CH ₂ CH ₃	209-210	20	25	30	40
V		266-267	12	15	18	35
VI		206-209 [1]	15	38	50	80

Card 2/5

L 21560-66 FVO(a)/RMR(5) IJP(a) RM
 ACC NR. AP6009794 SOURCE CODE: UR/0062/000/002/0268/0274 27
 AUTHOR: Fedorov, B. P.; Lukovnikov, A. F.; Mamedov, R. M.; Yedemskaya, V. V.; Sukhov, V. A. B 26
 ORG: Institute of Chemical Physics, Academy of Sciences SSSR (Institut khimicheskoy fiziki Akademii nauk SSSR); Institute of Organic Chemistry im. N. D. Zelinskiy, Academy of Sciences SSSR (Institut organicheskoy khimii Akademii nauk SSR)
 TITLE: Synthesis of some S-substituted 2-(mercaptomethyl)benzimidazoles and a study of their inhibition of polypropylene oxidation
 SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 2, 1966, 268-274
 TOPIC TAGS: polypropylene, oxidation inhibition, polymer additive, benzimidazole derivative
 ABSTRACT: Previous work had shown that the effectiveness of 2-mercapto-benzimidazole derivatives as inhibitors of polypropylene oxidation depends on the presence of the sulfhydryl group, or on the nature of the substituents at the sulfhydryl group. The present work deals with the synthesis and properties of S-substituted 2-(mercaptomethyl)benzimidazoles. A number of compounds were prepared and their inhibiting effect on the oxidation of isotactic polypropylene at 200C and pO₂ = 200 mm was investigated. The compounds and the induction periods observed on addition of inhibitors are given in the table:
 Card 1/5

MAMEDOV, R.M.; MALKINA, A.Ya.; FEDOROV, B.P.

Antifungous activity of certain S-substituted 2-(mercaptomethyl)-
benzimidazole. Azerb. khim. zhur. no.3:61-63 '65.

(MIRA 19:1)

1. Institut organicheskoy khimii AN SSSR.

FEDEROV, B.P.; MAMEDOV, R.M.

Syntheses of some derivatives of 2-mercaptomethylbenzimidazole.
Izv. AN SSSR. Otd. khim. nauk no. 9:1626-1630 S '62. (MIRA 15:10)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.
(Benzimidazole)

ABRAMOV, V.V.; KANAVETS, I.F.; MAMEDOV, R.I.

Investigating the conditions of the injection molding of thermoplastics
with the use of composite molds. Plast. massy no.7:30-34 '65.

(MIRA 18:7)

MAMEDOV, R.I.; KANAVETS, I.F.

Conditions of feed maintenance in pressure casting of thick-walled
products made from thermoplastics. Plast. massy no.4:27-31 '65.
(MIRA 18:6)

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1. The purpose of the present study is to determine the influence of the
2. Various conditions in which the material is used on the rate of its degradation.

3. The material is a plastic polymer, polypropylene, which is used in the form of a film.

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MAMEDOV, R.I.; KANAVETS, I.F.

Effect of the casting temperature on the properties of the
products. Plast. massy no.2:30-37 '64. (MIRA 17:8)

MAMEDOV, R.I.; KANAVETS, I.F.

Effect of the injection pressure and speed on the properties of goods
made from polypropylene. Plast.massy no.1:27-35 '64.
(MIRA 17:6)

MAMEDOV, R.G.

Inter-regional soap production links of the Kirovabad industrial
unit. Izv. AN Azerb. SSR. Ser. geol. geog. nauk no.5:103-105 '64.
(MIRA 18:6)

L 13948-66

ACC NR: AT6003598

of convergence of the singular integral at generalized points d and at generalized Lebesgue points of any order P are investigated. The author investigates the convergence in the metric of the space $L_p(a, b)$ and discusses the possibility of the further generalization of the results. In the present work a total of 17 theorems are demonstrated. The problem of the order of convergence of the singular integral to the summed function $f(x)$ at points d and at Lebesgue points of given order is deemed most important because these and other points fill almost the entire interval of assignment of the summed function. The singular integral cannot converge to any generating function $f(x)$ at any point, because variations in the values of the function in any set of measure zero have no influence on the variation of the values of the integral, whatever the kernel $K_\lambda(x, t)$ may be. Orig. art. has: 51 formulas.

SUB CODE: 12/

SUBM DATE: 25Jun65/

ORIG REF: 011/

OTH REF: 006

Card 2/2 BK

13948-66 EWT(d) IJP(c) GS
ACC NR: A16003598

SOURCE CODE: UR/0000/65/000/000/0092/0108

AUTHOR: Mamedov, R. G.

ORG: none

TITLE: An investigation of the orders of convergence of one-dimensional and multi-dimensional singular integrals 16.44.55

SOURCE: AN AzerbSSR, Institut matematiki i mekhaniki. Issledovaniya po teorii differentsial'nykh uravneniy i teorii funktsiy (Studies on the theory of differential equations and the theory of functions). Baku, Izd-vo AN AzerbSSR, 1965, 92-108

TOPIC TAGS: singular integral, approximation method, interpolation, differential equation, functional equation, linear operator, periodic function, *convergent series*

ABSTRACT: The orders of convergence of the general singular integral

$$T_{\lambda}(f; x) = \int_a^b f(t) K_{\lambda}(x, t) dt$$

at individual points and in the metric of the space $L_p(a, b)$ are studied. Orders

Card 1/2

IBRAGIMOV, I.I., otv. red.; DZHAFAROV, A.S., red.; MAMEDOV, R.G.,
red.; LABSKER, L.G., red.

[Studies on the current problems in the constructive
theory of functions] Issledovaniia po sovremennym proble-
mam konstruktivnoi teorii funktsii. Baku, Izd-vo 'N
Azerbaidzhanskoi SSR, 1965. 637 p. (MIRA. 19:1)

1. Vsesoyuznaya konferentsiya po konstruktivnoy teorii
funktsiy, 2d, Baku, 1962.

MAMEDOV, R.G.

Local saturation of a family of linear positive operators. Dokl.
AN SSSR 156 no. 3:499-502 '64. (MIRA 17:5)

1. Azerbaydzhanskiy politekhnicheskiy institut. Predstavleno
akademikom V.I.Smirnovym.

1958-59

APPROX. 1000

for the national function (5). Orig. art. has 10 formulas.

APPROX. 1000. Orig. art. has 10 formulas. (Institute of
Engineering and Mechanics, Academy of Sciences, Azerbaijan SSR)

APPROX. 1000

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ENGL: 00

NR REF SOV: 002

OTHER: 000

THEOREM 2. If $a \geq 1$ and $x_j \geq a + \beta$ ($\beta > 0$), then

$$H(R, 0) \leq \left(\frac{1 + \sqrt{1 + \beta}}{1 + \sqrt{1 + \beta}} \right)^n H(R, 1) \quad (2)$$

For the polynomial $H(x)$. Theorem 3. If $a \geq 1$ and $x_j \geq a + \beta$ ($\beta > 0$), then

$$H(R, 0) \geq \left(\frac{1 + \sqrt{1 + \beta}}{1 + \sqrt{1 + \beta}} \right)^n H(R, 1) \quad (3)$$

For the polynomial $H(x)$. Theorem 4. If $a \geq 1$, $x_j \geq \sqrt{a} + \gamma$ ($\gamma > 0$), $j = 1, 2, \dots, n$, and $R \geq a + \gamma$, then

$$H(R, 0) \leq \left(\frac{1 + \sqrt{1 + \gamma}}{1 + \sqrt{1 + \gamma}} \right)^n H(R, 1) \quad (4)$$

For the polynomial $H(x)$.

$$H(R, 0) \geq \left(\frac{1 + \sqrt{1 + \gamma}}{1 + \sqrt{1 + \gamma}} \right)^n H(R, 1) \quad (5)$$

For the polynomial $H(x)$. Theorem 5. If $a \geq 1$, $x_j \geq a + \gamma$ ($\gamma > 0$), $j = 1, 2, \dots, n$, and $R \geq \sqrt{a} + \gamma$, then

$$H(R, 0) \geq \left(\frac{1 + \sqrt{1 + \gamma}}{1 + \sqrt{1 + \gamma}} \right)^n H(R, 1) \quad (6)$$

8/09 0/63/132/03/1058/1050

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001032000011-6

Khililov, S.I.

Orders of convergence of multidimensional singular integrals.
Dokl. AN Azerb. SSR 18 no.11:9-13 '62. (MIRA 17:2)

1. Institut matematiki i mekhaniki AN AzSSR. Predstavleno
akademikom AN AzSSR S.I. Khalilovym.

MAMEDOV, R.G.

On certain classes of functions. Dokl. AN SSSR 148 no.3:520-522
Ja '63. (MIRA 16:2)

1. Institut matematiki i mekhaniki AN Azerbaydzhanskoy SSR.
Predstavleno akademikom V.I. Smirnovym.
(Functions) (Fourier transformations)

MAMEDOV, R.G.

Order of convergence of m -singular integrals in generalized Lebesgue points and in $L_p(-\infty, \infty)$ space. Izv. AN SSSR. Ser. mat. 27 no.2:287-304. Mr-Apr '63. (MIRA 16:4)

1. Institut matematiki i mekhaniki AN Azerbaydzhanskoy SSR.
(Integrals, Generalized) (Spaces, Generalized)

The order and asymptotic value...

S/020/62/147/002/004/021
B112/B186

and for $f \in L^p(-\pi, \pi)$, with the integral modulus of continuity of f .

ASSOCIATION: Institut matematiki i mekhaniki Akademii nauk AzerbSSR
(Institute of Mathematics and Mechanics of the Academy of
Sciences AzSSR)

PRESENTED: May 28, 1962, by S. L. Sobolev, Academician

SUBMITTED: May 19, 1962

S/020/62/147/002/004/021
B112/B186

AUTHOR: Mamedov, R. G.

TITLE: The order and asymptotic value of the approximation of a non-differentiable function by a certain kind of positive linear operators

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 147, no. 2, 1962, 297-300

TEXT: The approximation of 2π -periodic functions f by positive linear operators $L_r(f;x) = (1/\pi) \int_{-\pi}^{\pi} f(t+x) u_r(t) dt$, (1) where

$u_r(t) = 1/2 + \sum_{k=1}^{\infty} \varphi_k(r) \cos kt \geq 0$ is investigated. The sequence $\{\varphi_k(r)\}_{k=1}^{\infty}$ is defined on a certain set $E = \{r\}$ having the limit point r_0 . The series $\sum_{k=1}^{\infty} \varphi_k(r)$ is assumed to be absolutely convergent on E . The difference $L_r(f;x) - f(x)$ is compared with the function $\alpha(r) = \sum_{k=1}^{\infty} (1 - \varphi_{2k}(r)) / (4k^2 - 1)$,

Card 1/2

The asymptotic value of the ...

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B112/E186

$$\lim_{\lambda \rightarrow \infty} \tau_{\lambda}^{[2m+2j]} / \tau_{\lambda}^{[2m]} = 0 \quad (j = 1, 2, \dots) \quad (2)$$

is necessary and sufficient for

$$\lim_{\lambda \rightarrow \infty} \frac{\mathcal{L}_{\lambda}(f; x) - f(x) - \sum_{k=1}^{2m-1} \frac{f^{(k)}(x)}{k!} \tau_{\lambda}^{[k]}}{\mathcal{L}_{\lambda}(\psi; x) - \psi(x) - \sum_{k=1}^{2m-1} \frac{\psi^{(k)}(x)}{k!} \tau_{\lambda}^{[k]}} = \frac{f^{(2m)}(x)}{\psi^{(2m)}(x)} \quad (1),$$

where $f, \psi \in \mathcal{M}_{2m}(2m, x)$. An analogous result is obtained for periodic functions $f(t)$ (theorem 2).

ASSOCIATION: Institut matematiki i mekhaniki Akademii nauk AzerbSSR
(Institute of Mathematics and Mechanics of the Academy of Sciences AzSSR)

PRESENTED: May 3, 1962, by V. I. Smirnov, Academician

SUBMITTED: April 29, 1962

Card 2/2

41670

S/020/62/146/005/002/011
B112/B186

16.6500

AUTHOR: Mamedov, R. G.

TITLE: The asymptotic value of the approximation of multiply
differentiable functions by positive linear operators

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 146, no. 5, 1962, 1013-1016

TEXT: The approximation of functions $f(t) \in \mathcal{M}(2m, x)$ by linear positive operators $\mathcal{L}_\lambda(f; x)$ is investigated. $\mathcal{M}(2m, x)$ is the set of all the functions $f(t)$ which are differentiable up to the $2m$ -th order in the point $t = x \in \langle a, b \rangle$. The subset $\mathcal{M}_{\gamma_{2m}}(2m, x)$ is characterized by the condition

$$|(\Phi(t) - \Phi(x))/\gamma_{2m}(t)| \leq M_\delta < +\infty \text{ for all the } |t - x| \geq \delta > 0, \text{ where}$$

$$\gamma_{2m}(t) = (t - x)^{2m} \text{ and } \Phi(t) = f(t) - \sum_{k=0}^{2m-1} f^{(k)}(x)(t - x)^k/k!$$

$$\mathcal{L}_\lambda[(t - x)^k; x] \text{ is denoted by } \tau_\lambda^{[k]} \text{ and } \mathcal{L}_\lambda(1; x) \text{ is set equal to unity.}$$

Theorem 1: At least one of the conditions

Card 1/2

MAMEDOV, R.G.

Direct and inverse theorems in the theory of approximation of functions by m -singular integrals. Dokl. AN SSSR 144 no. 2: 272-274 My '62. (MIRA 15:5)

1. Institut matematiki i mekhaniki AN AzerbSSR. Predstavleno akademikom V.I. Smirnovym.
(Functions) (Integrals, Generalized)

MAMEDOV, R.G.

Order of convergence of n -singular integrals of periodic functions. Dokl.AN Azerb.SSR 18 no.1:3-6 '62. (MIRA 15:3)

1. Institut matematiki i mekhaniki AN AzSSR. Predstavleno akademikom AN AzSSR Z.I.Khalilovym.
(Functions, Periodic) (Integrals)

MAMEDOV, R.G.

Some general results concerning the asymptotic value and the order of approximation of functions by a family of linear positive operators. First report. Izv. AN Azerb.SSR. Ser. fiz.-mat. i tekhn. nauk no.4:3-16 '62. (MIRA 16:2)
(Functional analysis) (Operators (Mathematics))

MAMEDOV, R.G.

Approximation of functions by generalized linear Landau operators. Dokl. AN SSSR 139 no.1:28-30 J1 '61. (MIRA 14:7)

1. Institut matematki i mekhaniki AN AzerSSR. Predstavleno akademikom V.I. Smirnovym.
(Functional alalysis) (Operators (Mathematics))

IBRAGIMOV, I.I.; MAMEDOV, R.G.

Some inequalities for polynomials of a complex variable. Dokl. AN SSSR
138 no.3:526-528 My '61. (MIRA 14:5)

1. Institut matematiki i mekhaniki AN AzerbSSR. Predstavleno
akademikom V.I. Smirnovym.
(Inequalities (Mathematics)) (Polynomials)

MAMEDOV, R.G.

Order of convergence of m-singular integrals. Dokl. AN Azerb. SSR
17 no.12:1127-1131 '61. (MIRA 15:2)

1. Institut matematiki i mekhaniki AN AzSSR. Predstavleno
akademikom AN AzSSR Z.I.Khalilovym.
(Integrals)

MAMEDOV, R.G.

Order of convergence of singular integrals in Lebesgue's points of
a given order. Dokl.AN Azerb.SSR 17 no.11:1005-1008 '61.

(MIRA 15:2)

1. Institut matematiki i mekhaniki AN AzSSR. Predstavleno
akademikom AN AzSSR Z.I.Khalilovym.
(Integrals)

MAMEDOV, R.G.

Order of convergence of singular integrals in the d points of
a summable function. Dokl.AN Azerb.SSR 17 no.7:563-567 '61.

1. Institut matematiki i mekhaniki AN AzerSSR. Predstavleno
akademikom AN Azerbaydzhanskoy SSR Z.I.Khalilovym.
(Convergence) (Integrals)

MAMEDOV, R.G.

Asymptotic value of approximations of multiply differentiable
functions by m -singular integrals. Izv.AN Azerb.SSR.Ser.fiz.-
mat.i tekhn.nauk no.63-10, '61. (MIRA 15:4)
(Functions) (Integrals)

MAMEDOV, Rashid

Evaluation of the approximation of functions by linear positive operators by means of the modulus of continuity. Izv. AN Azerb. SSR. Ser. fiz.-mat. i tekhn. nauk no.4:3-11 '61. (MIRA 14:12)
(Functional analysis)
(Operators (Mathematics))

MAMEDOV, R.G.

Order of the approximation of functions by linear integral
operators in the Lebesgue points of a given order. Izv. AN
Azerb. SSR. Ser. fiz.-mat. i tekhn. nauk no.3:13-21 '61.

(MIRA 14:10)

(Operators(Mathematics))
(Approximate computation)

MAMEDOV, R.G.

Order and asymptotic value of the approximation of functions by
means of linear positive operators. Izv. AN Azerb.SSR. Ser.
fiz.-mat. i tekhn. nauk 2:27-39 '61. (MIRA 14:7)
(Functional analysis) (Operators (Mathematics))

On the Order of the Approximation of Functions by Linear Positive Operators SOV/20-128-4-10/65

space of the $2u$ -periodic functions integrable in p -th power. The results are transferred to function spaces of several variables.

As special cases there result a theorem of A.O.Gel'fand and a theorem of I.P.Natanson. There are 8 theorems altogether. The author mentions S.N.Bernshteyn, V.I.Volkov, and P.P.Korovkin. There are 10 Soviet references.

ASSOCIATION: Institut fiziki i matematiki Akademii nauk Azerb SSR (Institute of Physics and Mathematics AS Azerbaydzhanskaya SSR)

PRESENTED: May 27, 1959, by S.L.Sobolev, Academician

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Card 2/2

16(1)

AUTHOR: Mamedov, R.G.

SOV/20-128-4-10/65

TITLE: On the Order of the Approximation of Functions by Linear Positive Operators

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 4, pp 674-676 (USSR)

ABSTRACT: Let $W_n(f; x)$ be a sequence of linear positive operators defined on a space E of functions $f(x)$. Let $\Delta_n(f; x) = W_n(f; x) - f(x)$ for all $f(x) \in E$.

Theorem 1: Let $E \equiv C[a, b]$ and $\lambda_n = \max_{a \leq x \leq b} W_n(|t-x|; x)$. Then

$|\Delta_n(f; x)| \leq 2\omega(\lambda_n)$ on $[a, b]$, where $\omega(\delta)$ is the modulus of continuity of $f(x)$.

Theorem 2: If furthermore $|f(t) - f(x)| \leq M|t-x|$, then $|\Delta_n(f; x)| \leq M\lambda_n$ for all $x \in [a, b]$.

The formulated theorems are also valid for the linear operators

$$(*) \quad W_n(f; x) = \int_{-u}^u f(t) K_n(t-x) dt,$$

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where $K_n(\tau) \in L_q(-u, u)$, $f(x) \in L_p(-u, u)$, and $L_p(-u, u)$, $p \geq 1$ is the

SOV/20-128-3-10/78

The Asymptotic Value of the Approximation of Differentiable Functions
by Linear Positive Operators

Two further theorems of similar contents on the difference
 $L_n(f;x)-f(x)$ are given.

The theorems are applied to the operators $B_n(f,x)$ of V.A.
Baskakov [Ref 7], to the polynomials of S.K. Bernstein,
to the operator $D_n(f;x)$ of Jackson etc.

The author mentions Ye.V. Voronovskaya, I.I. Natanson, S.P.
Korovkin.

There are 7 Soviet references.

ASSOCIATION: Institut fiziki i matematiki AN Azerb SSR (Institute of
Physics and Mathematics AS Azerbaydzhan SSR)

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16(1)

SOV/20-128-3-10/58

AUTHOR: Mamedov, R.G.

TITLE: The Asymptotic Value of the Approximation of Differentiable Functions by Linear Positive Operators

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 3, pp 471-474 (USSR)

ABSTRACT: Let $H^2(x)$ be the set of the bounded functions $f(x)$ possessing a finite $f''(x)$ in the point $t=x$.

Theorem: Let $L_n(f; x)$ be a linear positive operator, let

$$(2) \quad L_n(1; x) = 1 + o\left[\frac{1}{\varphi_1(n)}\right], \quad L_n(t^k; x) = x^k + \frac{\psi_k(x)}{\varphi_k(n)} + o\left[\frac{1}{\varphi_1(n)}\right],$$

$k=1, 2$, where $\varphi_k(n) \rightarrow \infty$ for $n \rightarrow \infty$. If $\lim_{n \rightarrow \infty} \frac{\varphi_1(n)}{\varphi_2(n)} = 0$ and

$$(3) \quad \lim_{n \rightarrow \infty} \varphi_1(n) L_n \left\{ (t-x)^{2m}; x \right\} = 0$$

for an $m > 1$, then for every $f(x) \in H^2(x)$ it holds:

$$(4) \quad L_n(f; x) - f(x) = \frac{f'(x)\psi_1(x) - f''(x)x\psi_1(x)}{\varphi_1(n)} + o\left[\frac{1}{\varphi_1(n)}\right]$$

Card 1/2

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Classes of saturation of linear operators in an L_p ($-\infty, \infty$)
space. Izv. AN SSSR. Ser. mat. 29 no.4:957-964 '65.
(MIRA 18:9)

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zone. Izv. AN Azerb. SSR. Ser. biol. nauk no.3:88-94 '65.
(MIRA 18:10)

MAMEDOV, R.G.

Salt composition of water in rivers, soil, underground water-
collecting galleries and wells of the Araks River zone. Izv.
AN Azerb. SSR. Ser. biol. nauk no.2:58-64 '65. (MIRA 18:7)

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Izv. AN Azerb. SSR. Ser. biol. nauk no. 5:63-71 '64. (MIRA 18:4)

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Some direct and inverse theorems in the theory of approximation of
periodic functions by singular integrals. Izv. AN Azerb. SSR. Ser.
fiz.-tekh. i mat. nauk no.5:3-11 '64. (MIRA 18.4)

MAMEDOV, H.G.

Soil salinity of the Araks River zone. Izv. AN Azerb. SSR. Ser.
biol. no.4:73-79 '64. (MIRA 17:14)

MAMEDOV, R.G.

Principles of soil classification of the Nakhichevan A.S.S.R.
based on agrophysical characteristics. Dokl. AN Azerb. SSR
18 no.9:43-47 '62. (MIRA 17:1)

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[Agrophysical characteristics of soils in the piedmont and
lowland parts of the Nakhichevan A.S.S.R. for the purpose of
working out the bases of irrigation and their efficient use
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258 p. (MIRA 16:8)

(Nakhichevan A.S.S.R.--Soil physics)